

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.0950001	APPLICATION NO. 09/030,832
	APPLICANT HANNA <i>et al.</i>	
	FILING DATE February 26, 1998	GROUP 1801

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BL	AL1	WO 96/06862	03/07/1996	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BL	AR	1	Adams, M.D. <i>et al.</i> , "Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence," <i>Nature</i> 377(Supp.):3-174 (1995)
BL	AS	1	Adodra, S. and Hales, T.G., "Potentiation, activation and blockade of GABA _A receptors of clonal murine hypothalamic GT1-7 neurones by propofol," <i>Br. J. Pharmacol.</i> 115(6):953-960 (1995)
BL	AT	1	Amann, E. <i>et al.</i> , "Tightly regulated <i>tac</i> promoter vectors useful for the expression of unfused and fused proteins in <i>Escherichia coli</i> ," <i>Gene</i> 69(2):301-315 (1988)

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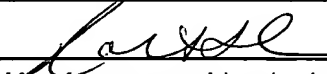
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BC	AR	2	Bateson, A.N. <i>et al.</i> , "γ-Aminobutyric Acid _A Receptor Heterogeneity Is Increased by Alternative Splicing of a Novel β-Subunit Gene Transcript," <i>J. Neurochem.</i> 56(4):1437-1440 (1991)
BC	AS	2	Bell, K. <i>et al.</i> , "GABAergic Projection From the Ventral Pallidum and Globus Pallidus to the Subthalamic Nucleus," <i>Synapse</i> 20(1):10-18 (1995)
BC	AT	2	Bergman, H. <i>et al.</i> , "Reversal of Experimental Parkinsonism by Lesions of the Subthalamic Nucleus," <i>Science</i> 249:1436-1438 (1990)

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BL	AR	3	Bormann, J. <i>et al.</i> , "Mechanism of Anion Permeation through Channels Gated by Glycine and γ -Aminobutyric Acid in Mouse Cultured Spinal Neurones," <i>J. Physiol. (London)</i> 385:243-286 (1987)
BL	AS	3	Buckle, V.J. <i>et al.</i> , "Chromosomal Localization of GABA _A Receptor Subunit Genes: Relationship to Human Genetic Disease," <i>Neuron</i> 3:647-654 (1989)
BL	AT	3	Buller, A.L. <i>et al.</i> , "Site-Directed Mutagenesis of N-Linked Glycosylation Sites on the γ -Aminobutyric Acid Type A Receptor $\alpha 1$ Subunit," <i>Mol. Pharmacol.</i> 46(5):858-865 (1994)

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<i>BL</i>	AR	<u>4</u>	Davies, P.A. <i>et al.</i> , "Insensitivity to anaesthetic agents conferred by a class of GABA _A receptor subunit," <i>Nature</i> 385:820-823 (February 1997)
<i>BL</i>	AS	<u>4</u>	Davies, P.A. <i>et al.</i> , "Modulation by general anaesthetics of rat GABA _A receptors comprised of $\alpha 1\beta 3$ and $\beta 3$ subunits expressed in human embryonic kidney 293 cells," <i>Br. J. Pharmacol.</i> 120(5):899-909 (March 1997)
<i>BL</i>	AT	<u>4</u>	Gage, P.W. and Chung, S.-H., "Influence of membrane potential on conductance sublevels of chloride channels activated by GABA," <i>Proc. R. Soc. Lond. B</i> 255(1343):167-172 (1994)

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BC	AR	5	Garret, M. <i>et al.</i> , "An mRNA Encoding a Putative GABA-Gated Chloride Channel Is Expressed in the Human Cardiac Conduction System," <i>J. Neurochem.</i> 68:1382-1389 (April 1997)
BC	AS	5	Goetz, C.G. and Diederich, N.J., "There is a renaissance of interest in pallidotomy for Parkinson's disease," <i>Nature Med.</i> 2(5):510-514 (May 1996)
BC	AT	5	Gray, R. and Johnston, D., "Rectification of Single GABA-Gated Chloride Channels in Adult Hippocampal Neurons," <i>J. Neurophysiol.</i> 54(1):134-142 (1985)

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BL	AR	6	Greger, V. <i>et al.</i> , "The γ -Aminobutyric Acid Receptor γ 3 Subunit Gene (GABRG3) Is Tightly Linked to the α 5 Subunit Gene (GABRA5) on Human Chromosome 15q11-q13 and Is Transcribed in the Same Orientation," <i>Genomics</i> 26:258-264 (1995)
BL	AS	6	Hedblom, E. and Kirkness, E.F., "A Novel Class of GABA _A Receptor Subunit in Tissues of the Reproductive System," <i>J. Biol. Chem.</i> 272(24):15346-15350 (June 1997)
BL	AT	6	Hicks, A.A. <i>et al.</i> , "Further Evidence for Clustering of Human GABA _A Receptor Subunit Genes: Localization of the α ₆ -Subunit Gene (GABRA6) to Distal Chromosome 5q by Linkage Analysis," <i>Genomics</i> 20:285-288 (1994)

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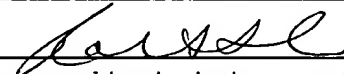
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BC	AR	Z	Kirkness, E.F. <i>et al.</i> , "Isolation, Characterization, and Localization of Human Genomic DNA Encoding the $\beta 1$ Subunit of the GABA _A Receptor (GABRB1)," <i>Genomics</i> 10:985-995 (1991)
BC	AS	Z	Knoll, J.H.M. <i>et al.</i> , "FISH ordering of reference markers and of the gene for the $\alpha 5$ subunit of the γ -aminobutyric acid receptor (GABRA5) within the Angelman and Prader-Willi syndrome chromosomal regions," <i>Human Molecular Genetics</i> 2(2):183-189 (1993)
BC	AT	Z	Korpi, E.R. and Lüddens, H., "Regional γ -Aminobutyric Acid Sensitivity of <i>t</i> -Butylbicyclopophosphoro[³⁵ S]thionate Binding Depends on γ -Aminobutyric Acid _A Receptor α Subunit," <i>Mol. Pharmacol.</i> 44(1):87-92 (1993)

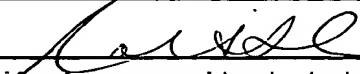
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BC	AR	8	Lasham, A. <i>et al.</i> , "Conserved Organization of γ -Aminobutyric Acid _A Receptor Genes: Cloning and Analysis of the Chicken β 4-Subunit Gene," <i>J. Neurochem.</i> 57(1):352-355 (1991)
BC	AS	8	Lewohl, J.M. <i>et al.</i> , "Expression of the α_1 , α_2 and α_3 isoforms of the GABA _A receptor in human alcoholic brain," <i>Brain Research</i> 751:102-112 (March 1997)
BC	AT	8	Macdonald, R.L. and Olsen, R.W., "GABA _A Receptor Channels," <i>Annu. Rev. Neurosci.</i> 17:569-602 (1994)

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BC	AR	2	Matsuyama, S. <i>et al.</i> , "GABA modulates neurotransmission in sinus node via stimulation of GABA _A receptor," <i>Am. J. Physiol.</i> 264(4):H1057-H1061 (1993)
BC	AS	2	McLean, P.J. <i>et al.</i> , "Mapping of the α_4 Subunit Gene (GABRA4) to Human Chromosome 4 Defines an α_2 - α_4 - β_1 - γ_1 Gene Cluster: Further Evidence That Modern GABA _A Receptor Gene Clusters Are Derived from an Ancestral Cluster," <i>Genomics</i> 26:580-586 (1995)
BC	AT	2	McLemore, G.L. <i>et al.</i> , "Cardiac Noradrenergic Mechanisms Mediate GABA-Enhanced Ouabain Cardiotoxicity," <i>Pharmacology</i> 49:343-350 (1994)

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BC	AR	10	Peters, J.A. <i>et al.</i> , "Modulation of the GABA _A receptor by depressant barbiturates and pregnane steroids," <i>Br. J. Pharmacol.</i> 94(4):1257-1269 (1988)
BC	AS	10	Rogner, U.C. <i>et al.</i> , "A YAC clone map spanning 7.5 megabases of human chromosome band Xq28," <i>Human Molecular Genetics</i> 3(12):2137-2146 (1994)
BC	AT	10	Russek, S.J. and Farb, D.H., "Mapping of the β_2 Subunit Gene (GABRB2) to Microdissected Human Chromosome 5q34-q35 Defines a Gene Cluster for the Most Abundant GABA _A Receptor Isoform," <i>Genomics</i> 23:528-533 (1994)

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<i>BL</i>	AR	<u>11</u>	Sanna, E. <i>et al.</i> , "Actions of the General Anesthetic Propofol on Recombinant Human GABA _A Receptors: Influence of Receptor Subunits," <i>J. Pharmacol. Exp. Ther.</i> 274(1):353-360 (1995)
<i>BL</i>	AS	<u>11</u>	Sargent, P.B., "The Diversity of Neuronal Nicotinic Acetylcholine Receptors," <i>Annu. Rev. Neurosci.</i> 16:403-443 (1993)
<i>BL</i>	AT	<u>11</u>	Saxena, N.C. and Macdonald, R.L., "Assembly of GABA _A Receptor Subunits: Role of the δ Subunit," <i>J. Neurosci.</i> 14(11):7077-7086 (1994)

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<i>BL</i>	AR	<u>12</u>	Schmieden, V. <i>et al.</i> , "Agonist pharmacology of neonatal and adult glycine receptor α subunits: identification of amino acid residues involved in taurine activation," <i>EMBO J.</i> 11(6):2025-2032 (1992)
<i>BL</i>	AS	<u>12</u>	Segal, M. and Barker, J.L., "Rat Hippocampal Neurons in Culture: Properties of GABA-Activated Cl ⁻ Ion Conductance," <i>J. Neurophysiol.</i> 51(3):500-515 (1984)
<i>BL</i>	AT	<u>12</u>	Simmons, D. and Seed, B., "Isolation of a cDNA Encoding CD33, a Differentiation Antigen of Myeloid Progenitor Cells," <i>J. Immunol.</i> 141(8):2797-2800 (1988)

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BC	AR	13	Smith, T.F. and Waterman, M.S., "Comparison of Biosequences," <i>Adv. Appl. Math.</i> 2:482-489 (1981)
BL	AS	13	Sommer, B. <i>et al.</i> , "The Murine GABA _A Receptor δ -Subunit Gene: Structure and Assignment to Human Chromosome 1," <i>DNA and Cell Biology</i> 9(8):561-568 (1990)
BL	AT	13	Stark, M.J.R., "Multicopy expression vectors carrying the <i>lac</i> repressor gene for regulated high-level expression of genes in <i>Escherichia coli</i> ," <i>Gene</i> 51(2-3):255-267 (1987)

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<i>PK</i>	AR	<u>14</u>	Verdoorn, T.A. <i>et al.</i> , "Functional Properties of Recombinant Rat GABA _A Receptors Depend upon Subunit Composition," <i>Neuron</i> 4(6):919-928 (1990)
<i>BL</i>	AS	<u>14</u>	Wagstaff, J. <i>et al.</i> , "Localization of the Gene Encoding the GABA _A Receptor β 3 Subunit to the Angelman/Prader-Willi Region of Human Chromosome 15," <i>Am. J. Hum. Genet.</i> 49:330-337 (1991)
<i>BL</i>	AT	<u>14</u>	Whiting, P.J. <i>et al.</i> , "Structure and Pharmacology of Vertebrate GABA _A Receptor Subtypes," <i>Int. Rev. Neurobiol.</i> 38:95-138 (1995)

EXAMINER <i>Lee H. Lee</i>	DATE CONSIDERED <i>3/22/00</i>
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0950001	APPLICATION NO. 09/030,832
	APPLICANT HANNA <i>et al.</i>	
	FILING DATE February 26, 1998	GROUP 1801

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>BL</i>	AR	<u>15</u>	Wilcox, A.S. <i>et al.</i> , "Human chromosomal localization of genes encoding the $\gamma 1$ and $\gamma 2$ subunits of the γ -aminobutyric acid receptor indicates that members of this gene family are often clustered in the genome," <i>Proc. Natl. Acad. Sci. USA</i> 89:5857-5861 (1992)
<i>BL</i>	AS	<u>15</u>	Wilke, K. <i>et al.</i> , "A Gene in Human Chromosome Band Xq28 (GABRE) Defines a Putative New Subunit Class of the GABA _A Neurotransmitter Receptor," <i>Genomics</i> 45:1-10 (October 1997)
<i>BL</i>	AT	<u>15</u>	Wisden, W. <i>et al.</i> , "The Distribution of 13 GABA _A Receptor Subunit mRNAs in the Rat Brain. I. Telencephalon, Diencephalon, Mesencephalon," <i>J. Neurosci.</i> 12(3):1040-1062 (1992)

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	3/22/00
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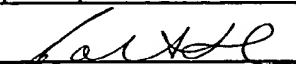
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BL	AR	16	Yang, W. <i>et al.</i> , "Identification of the GABA _A receptor subtype mRNA in human pancreatic tissue," <i>FEBS Lett.</i> 346:257-262 (1994)
BL	AS	16	Zhu, W.J. <i>et al.</i> , "δ Subunit Inhibits Neurosteroid Modulation of GABA _A Receptors," <i>J. Neurosci.</i> 16(21):6648-6656 (November 1996)
M Hillier	AT	16	NCBI Entrez Nucleotide Query, GenBank Report, Hillier, L. <i>et al.</i> , Accession No. R07883 (1995), and Revision History


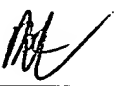

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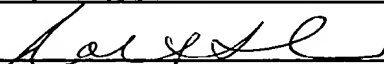
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>17</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hillier, L. <i>et al.</i> , Accession No. R07942 (1995), and Revision History
	AS	<u>17</u>	NCBI Entrez Nucleotide Query, GenBank Report, Fujiwara, T., Accession No. C17228 (September 1996), and Revision History
	AT	<u>17</u>	NCBI Entrez Nucleotide Query, GenBank Report, Garret, M., Accession No. Y07637 (December 1996), and Revision History




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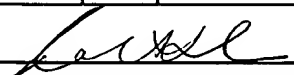
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>18</u>	NCBI Entrez Nucleotide Query, GenBank Report, Davies, P.A. <i>et al.</i> , Accession No. U66661 (March 1997), and Revision History
	AS	<u>18</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92281 (January 1998), and Revision History
	AT	<u>18</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92282 (January 1998), and Revision History

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<i>BS</i>	AR	<u>19</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92283 (January 1998), and Revision History
<i>BS</i>	AS	<u>19</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92284 (January 1998), and Revision History
<i>BS</i>	AT	<u>19</u>	NCBI Entrez Nucleotide Query, GenBank Report, Hanna, M.C. <i>et al.</i> , Accession No. U92285 (January 1998), and Revision History

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	AP						Yes No

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<i>BL</i>	AR	<u>20</u>	NCBI Entrez Nucleotide Query, GenBank Report, Wilke, K., Accession No. Y09764 (July 1997), and Revision History
<i>BL</i>	AS	<u>20</u>	NCBI Entrez Nucleotide Query, GenBank Report, Wilke, K., Accession No. Y09765 (July 1997), and Revision History
	AT		

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